elysium-global.com

🗱 ELYSIUM

Simplification + Solid Enveloping

Not everyone needs a fully detailed model. Simplify for FEA, space claim, light-weighting and intellectual property protection.





ELYSIUM Simplification

Sometimes less is more

Models are a great design communication tool, but sometimes the complete detail or data size can be too much. Envelope the model or removing features such as fillets, chamfers, holes, ribs, bosses, and more can be easy for more efficient consumption and analysis.

Protecting 3D data

Your design is your property. Remove features and non-visible parts to ensure that only necessary information is shared.

Learn more @ elysium-global.com

Defeaturing

Identify and quickly remove features selectively or all at once

Reducing Large Assemblies

Make large models easier to work with



CA Protecting Intellectual Property





Your model is your intellectual property

If a model needs to be shared with customers or suppliers, Elysium Simplification solutions allow you to only share what needs to be shared. Quickly remove proprietary information with confidence.

$\widehat{\mathbf{Y}_{\otimes}}$ Defeaturing for FEA



FEA meshing made easier

Effortlessly remove elements like fillets and chamfers to make meshing and analysis quicker. Elysium solutions can also heal poor CAD geometry and allow to export from any CAD directly to analysis formats, like Parasolid.

Case Study

INTERACTIVE VS AUTOMATIC SIMPLIFICATION

ORIGINAL MODEL



SIMPLIFIED MODEL





| Auto Solic | d Envelope | ~ 50% | | |
|-------------------------|-------------------|-------------------|-------------------|-----------------------|
| | 34% | | Interactive Soli | id Envelope |
| Auto Surface Extraction | | | | |
| 26% | 6 | Eu e Siz | | 100% |
| REDUCTION | | | | |
| | Original Model | Solid Envelope | Solid Envelope | SURFACE EXTRACTION |
| Auto/Manual | - | INTERACTIVE | Αυτο | Αυτο |
| Operation Time | - | 480 Min | 12 Min | 16 Min |
| Solid/Surface | Solid | Solid | Solid | SURFACE |
| File Size | 281мв | 134мв | 96мв | 73мв |
| % of Original | 100% | 48% | 34% | 26% |
| No. of Faces | 108,938 | 54,523 | 36,508 | 25,933 |
| % OF ORIGINAL | 100% | 50% | 34% | 24% |



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